



## United States Department of the Interior

### FISH AND WILDLIFE SERVICE

Dworshak Fisheries Complex

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## MEMORANDUM

To: Fisheries Supervisor, Columbia Basin Ecoregion  
Region 1, Portland, OR

From: Complex Manager  
Dworshak Fisheries Complex

Subject: **Monthly Activity Report – Feb. 2010**

### **Fish Management Culture**

#### ***Dworshak***

#### **SPRING CHINOOK SALMON (SCS)**

##### ***Brood Year (BY) 2008***

At the end of the month there were approximately 1,114,974 BY08 SCS on station. These fish averaged 19 fish per pound (fpp) and 143 mm (5.6 inches) total length. Mortality for the month averaged 0.4 percent and raceway (RW) water temperature averaged 41.9°F.

##### ***Brood Year 2009***

At the end of the month there were approximately 584,200 sac-fry in incubators at Dworshak National Fish Hatchery (DNFH). These fry are being incubated on 37°F water and are projected to go on feed in April.

#### **COHO SALMON (COS)**

##### ***Brood Year 2008***

At the end of the month there were 347,437 COS averaging 14 fpp and 149 mm (5.9 inches) total length on station. Coho are in Burrows ponds (BP's) 51-53-55-57-59. Coho in BP59 were diagnosed with Cold-water disease and on February 8-10 a one-hour bath of Chloramine-T was administered to these fish. On February 10-19, a ten-day Florfenicol medicated feed treatment was started on fish in BP's 51-57 and appeared to help lower the mortalities. Mortality for the month was 0.3 percent for all the coho and water temperature averaged 41.9°F for the month.

## SUMMER STEELHEAD (SST)

### **Brood Year 2009**

By the end of the month there were 1,244,211 SST on station averaging 8.1 fpp and 179 mm (7.1 inches) total length. High mortality from *Infectious Hematopoietic Necrosis Virus* (IHNV), gas bubble, and cold-water disease occurred over the summer of 2009 pushing the steelhead mortality near 1.3 million mark.

System I had 367,831 BY09 SST averaging 7.5 fpp and 184 mm (7.3 inches) total length by the end of the month. Mortality was 0.2 percent and water temperature averaged 41.9°F for the month.

System II had 661,397 BY09 SST averaging 8.8 fpp and 174 mm (6.9 inches) total length by the end of the month. Mortality was 0.5 percent and water temperature averaged 41.9°F for the month.

System III had 214,983 BY09 SST averaging 7.5 fpp and 184 mm (7.3 inches) total length by the end of the month. Mortality was 1.0 percent for the month. Water temperature averaged 41.9°F for the month.

## RAINBOW TROUT (RBT)

### **Brood Year 2009**

At the end of the month there were 12,948 BY09 RBT in BP61 averaging 2.0 fpp and 273 mm (10.8 inches) total length. Mortality was 2.5 percent and water temperature in the tanks averaged 41.9°F during the month.

These fish will be utilized for the Kids Fishing Day in 2010.

### **Brood Year 2010**

On February 4, Dworshak received 5,000 eyed triploid RBT eggs from Trout Lodge Hatchery in Sumner, Washington. These will be incubated and reared in Dworshak's incubation room and will be for Kids Fishing Day in 2011.

## SUMMARY

Table 1 Total Production—Fish on Station (02/28/10).

SP	BY	Location	Number	Wt (lbs)	FPP	L in	L mm
SCS	08	A& B-Bank RWs	1,114,974	59,485	19	5.6	143
COS	08	BPs	347,437	24,554	14.1	5.9	149
SST	09	System I	367,831	49,079	7.5	7.3	184
SST	09	System II	661,397	75,029	8.8	6.9	174
SST	09	System III	214,983	28,625	7.5	7.2	184
RBT	09	BP 61	12,948	6,422	2.0	10.7	273
<b>Total</b>			<b>2,719,570</b>	<b>243,194</b>			

## ***Kooskia***

### ***Kooskia Trap Operations BY09***

The trap remained closed through the month.

### ***Kooskia Brood Year 2009***

Kooskia Stock BY 09 Take 1 was tanked on February 24. Tanked SCS fry number 83,184. All remaining Kooskia Stock BY09 alevin are still being incubated on chilled well water. Incubating fry currently number 634,000.

### ***Dworshak Brood Year 2009***

All Dworshak Stock BY2009 were moved into the inside nursery tanks on February 24 & 25. Dworshak stock BY2009 SCS currently number 571,560.

On February 15 the hatchery experienced a power failure with a subsequent backup generator failure. All incubation stacks were placed on creek water. Chilled well water was restored to the stacks on February 24.

### **Brood Year 2008 Coho Salmon (COS)**

#### **Dworshak National Fish Hatchery**

During the month 347,446 Clearwater stock Coho were transferred to Kooskia National Fish Hatchery (KNFH) for final acclimation. On 2/12/10 BP59 were transferred to Kooskia. On 2/23/10 BP's 51 and 53 were transferred to Kooskia. On 2/24/10 BP55 and most of BP57 were transferred to Kooskia.

Table 1. Brood year 2008 Coho transfer inventory summary, 2010.

<b>Burrows Pond (BP) Number</b>	<b>Number of Fish</b>	<b>Weight (lbs)</b>	<b>Fish Per Pound (fpp)</b>	<b>Length (in)</b>	<b>Length (mm)</b>	<b>Date transferred to KNFH</b>
<b>BP51</b>	<b>73492</b>	<b>5249</b>	<b>14.00</b>	<b>5.89</b>	<b>150</b>	<b>2/23/10</b>
<b>BP53</b>	<b>74444</b>	<b>5030</b>	<b>14.80</b>	<b>5.78</b>	<b>147</b>	<b>2/23/10</b>
<b>BP55</b>	<b>74940</b>	<b>5244</b>	<b>14.29</b>	<b>5.85</b>	<b>149</b>	<b>2/24/10</b>
<b>BP57</b>	<b>73824</b>	<b>5236</b>	<b>14.10</b>	<b>5.87</b>	<b>149</b>	<b>2/24/10 &amp; 3/3/10</b>
<b>BP59</b>	<b>50737</b>	<b>3795</b>	<b>13.37</b>	<b>5.98</b>	<b>152</b>	<b>2/12/10</b>
<b>TOTALS</b>	<b>347437</b>	<b>24554</b>	<b>14.15</b>	<b>5.87</b>	<b>149</b>	

RELEASES: On 2/23/10 two raceways were released from Kooskia fish hatchery into Clear Creek. A total of 50,371 Coho were released. These fish were released early due to logistical reasons; there is not enough rearing space at Kooskia for all 350,000 Coho.

**MORTALITY:** The average percent mortality for Coho in February was 0.27%. In total, 934 mortalities were collected (see attached spreadsheet).

**GROWTH:** Coho fingerlings increased from 15.83 fish per pound to 14.15 fish per pound. Length increased from an average of 5.65 inches (144 mm) to 5.87 inches (149 mm).

**FEED:** Coho fry were fed Bio-Clark's Fry 2.5 mm feed at 1 % body weight of fish). Fish are being fed three times per week (Monday, Wednesday, and Friday) to control the growth rate. The Idaho Fish Health Center recommended this feeding schedule rather than feeding everyday to keep them from exceeding target-size at release in April 2010.

**FISH HEALTH:** Starting on 2/8/10 through 2/10/10, the fish in BP59 received a one hour standing bath Chloramine-T treatment for Coldwater disease. Starting on 2/10/10 through 2/19/10 BP's 51, 53, 55 and 57 were given a medicated feed for Coldwater disease. The medicated feed contained Florfenicol. A veterinary feed directive was issued from the USFWS Idaho Fish Health Lab.

### ***Kooskia Brood Year 2008***

Kooskia Stock BY2008 SCS number 632,810 averaging 29.9 fpp at 4.81 inches long. Minimal growth for the month was due to cold water. Kooskia stock SCS remain in the BP's on single pass creek water. Creek water temperature averaged 34.5°F this month. A Idaho Fish Health Center (IFHC) exam was conducted February 24<sup>th</sup>. The fish appear to be in good overall health. No formalin or drug treatments were recommended this month.

## **Maintenance**

### ***Dworshak***

- Electrical: Repaired blow-ups and relocated controls for Mech II boilers; reconnected ladder camera after construction company has left; repaired and calibrated liquid level controller for Mech II make-up sump; troubleshot and repaired Mech II south heat exchanger electro-pneumatic transducer; disconnected power to construction company trailer; installed circuit and assisted with installation of wireless PIT tag detector and equipment in Pond #9.
- Fabrication projects: aluminum pond crowder for rearing ponds; support standard for pack columns; cover plates for lab; support shelves for nursery tank "egg jar"; material cut for broom and net holders in RW's A & B; built overhead hangers and rack for a dispenser in the Idaho Fish Health Center's pick-up.
- Pumped and transported NPT coho to Kooskia National Fish Hatchery.
- Cleaned and transferred sludge in system I clarifiers to system digesters.
- Refit the nursery with hanging packed columns for each tank.
- Daily: checked Main Pump House pumps, traveling water screens and moss trap; checked and cleaned filter baskets in fire and maintenance building; cleaned up large pile of broken bottles in visitor parking lot; grounds and building maintenance.
- Cut holes in Mech II boiler doors for new fans.
- Repaired and replaced door knobs, locks and hand rails.

- Removed the tops from new packed towers and re-did the media.
- Pumped water from all the man holes on hatchery.
- Attended training for packed tower blowers and H-vac systems for Nursery.
- Exercised all 3 standby generators.
- Hauled adult steelhead to Five Mile boat ramp.

### ***Kooskia***

Construction on the new quarters continues with flooring, cabinetry, HVAC, and electrical work being conducted.

Feb 8: New domestic water line installed at riverside quarters.

Feb 18-22: Cleaning out biofilter bays.

Feb 23: Made temporary repairs to the backup generator.

Feb 24: Replaced inside Nursery tank reuse return pump motors.

### **ARRA/ Projects:**

**Screen Chamber project:** Some setbacks occurred when current design criteria for the screen building were unable to meet NOAA fish screening engineering requirements. A decision was made at the regional level to abandon the modifications to the screen building. The project is now scheduled for construction to begin June 2010. The contract was modified to now only include replacing the failed slide gate at the intake, and installation of a floodwall below the intake. Contract cost was reduced by \$197,000. Total Project cost is now \$432,300.

### **Egg recirculation system and well rehab:**

Work began on well #5, February 15. The well was test pumped, camera inspected, and a new pitless adapter was fitted. The camera revealed some bacterial clogging of the perforations.

Feb 17: Burton Construction conducting well # 5 test pumping.

Feb 24: Burton Construction conducting well #5 camera inspection and vault demolition.

Feb 26: Burton Construction fitting new pitless adapter on well #5. The hatchery received the well inspection video DVD.

The well will be mechanically cleaned and new pumps will be installed early March 2010. Work will continue on the wells with well #1 being done in mid March 2010, and the recirculation system work commencing spring and summer 2010. This project

includes rehab on the two production wells and the installation of a new egg incubation chiller and reuse system. Project cost is \$493,997.07.

## **Meetings/Training/Travel**

### ***Dworshak***

- 2/2-3 Mike Bisbee, Fisheries Biologist, Steve Coomer, Gia Growing Thunder, Lou Ann Lasswell, Eric Kashkash, Animal Caretakers traveled to Pendleton, OR to attend the Columbia Intertribal Fish Commission (CRITFC). Mike Bisbee made a presentation to the Commission on the Coho Restoration Project.
- 2/4-5 M. Bisbee, S. Coomer, G. Growing Thunder, L. Lasswell and E. Kashkash attended the NPT Science Workshop in Lapwai, ID.
- 2, 4 & 9 Jill Olson, Fisheries Biologist participated in and completed the Webinar Training with the Environmental Protection Agency (EPA) for Discharge Monthly Reporting (DMR) as required by our National Pollutant Discharge Elimination System (NPDES) permit.
- 2/11, 16 & 23 Under contract with the COE, CH2MHill visited DNFH to evaluate electrical capabilities for the proposed alternatives to comply with our NPDES permit and collect water samples during cleaning and non-Cleaning times to aid them in planning and calculating Total Suspended Solid (TSS) load removal.
- 2/10-11 Rick Allain, Animal Caretaker, traveled to Sacramento, CA for a Wage Grade meeting.
- 2/17 Annual Operating Plan held here in the Dworshak Main Building Conference Room.
- 2/18 Larry Peltz attended a HGMP meeting at Clearwater Hatchery.
- 2/23 Larry Peltz, Complex Manager; Kathy Clemens, Project Leader for Idaho Fish Health Center and Mike Faler, fisheries biologist traveled to Lapwai for a meeting on the current Nutrient Enhancement program being conducted at Dworshak Reservoir.
- 2/24 Larry Peltz met with BPA energy efficiency staff at the hatchery.
- 2/25 Rick Jones, Bonneville Power Administration (BPA) visited DNFH and collected electrical use data to evaluate the cost/benefit of changing a couple of our intake pumps to variable frequency drives. If this work moves forward it would reduce our electrical usage for pumping excess Water relative to the water needs of the hatchery. The hatchery currently utilizes over \$2 million worth of electricity mostly from pumping water. Any improvements here fit well with our agency's priorities to reduce waste and overall environmental impacts relative to climate change.

### ***Kooskia***

- Feb 2-9: Adam Izbicki taking NetDMR webinar training. Electronic NPDES reporting will be used to submit Discharge Monitoring Reports to the EPA.
- Feb 4-5: Kenny Simpson, Art Broncheau, and Gerry Fogleman attending the Tribes Department of Fisheries Management Annual Meeting.

Feb 10: Pre Construction meeting with Burton Construction. Adam Izbicki was officiating the meeting.  
Feb 17: Adam Izbicki attended the Annual Operating Plan meeting at Dworshak NFH.  
Feb 22: Conference call meeting with Regional Office and LanPacific to discuss design deficiencies with the screen building.  
Feb 24: Rick Jones from Bonneville Power conducted an energy audit at Kooskia NFH.

### **Miscellaneous**

2/24 February birthday parties were celebrated by staff in conjunction with the Safety meeting. Staff enjoyed their root beer floats furnished by FRO while viewing the safety video.

### **Personnel Actions –**

### **Safety/Wellness –**

2/24 Staff safety meeting held with the staff viewing a video on Lyme disease.

### **Information/Education (I/E)**

#### ***Dworshak***

**Tours - 2**

**People - 7**

**Register – 34** (Hatchery closed due to nursery roof construction until Feb. 22)

Visitors from 5 states (UT-8, MN-3, CO-2)

**Visitor Contacts – 0**

**Volunteers – 8      Hours – 67.5**

**Website Visitors – data not available**

#### **On-site:**

- Specialist Wandag participated in monthly IdEEA board conference call.
- Participated in monthly regional Connecting People with Nature workgroup conference call.
- Attended Annual Operating Plan meeting.
- Conducted annual volunteer orientation and training for 5 new and returning volunteers.
- Planned and attended meeting regarding Earth Week education program.
- Coordinated plans for Hatchery in the Classroom program for 2010 steelhead season.
- Completed I/E sections of annual report.
- Coordinated and completed funding application for possible 2010 schoolyard habitat restoration project.
- Coordinated volunteer program for 2010 steelhead spawning season.

**Off-site:**

- Delivered steelhead eggs and provided instruction to 4 schools – McDonald Elementary in Moscow (44 students), Troy High School (7 students), Colton School (17 students), and McSorley Elementary in Lewiston (48 students).
- Facilitated two meetings of Dworshak Extreme Explorers after school club, for 8 students each time.
- Delivered fish food and conducted feeding lesson at 2 schools – Troy High School (7 students), and McDonald Elementary in Moscow (20 students).
- Set up Hatchery in the Classroom tank and chiller system and discussed project at 1 school – Highland Elementary in Clarkston (25 students).
- Provided presentation on volunteer program to Orofino Rotary Club (35 people).

***Kooskia***

No visitors signed the guest book. No guided tours, but many visitors stopping to check the trap, see the big fish, and take a look around the hatchery grounds.

**On-site:**

- Completed I/E sections of annual report
- Coordinated plans for Hatchery in the Classroom program for 2010 steelhead season.

**Off-site:**

- Delivered steelhead eggs and provided instruction to 1 school – Sts. Peter & Paul School in Grangeville (24 students)
- Delivered fish food and conducted feeding lesson at Sts. Peter & Paul School in Grangeville (24 students)
- Set up Hatchery in the Classroom tank and chiller system and discussed project at 2 schools – Clearwater Valley Elementary in Kooskia (16 students), and Prairie Elementary in Cottonwood (35 students)



Larry Peltz  
Complex Manager

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cc: Kooskia NFH  
Hagerman NFH  
CFRU – Moscow  
Dworshak Production (2)  
LSRCP – Boise



